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SOUTH CAROLINA DEPARTMENT OF AGRICULTURE



ANNUAL REPORT 1989-1990

Printed Under The Direction Of The
State Budget And Control Board

LETTER OF TRANSMITTAL

To His Excellency, Governor Carroll A. Campbell

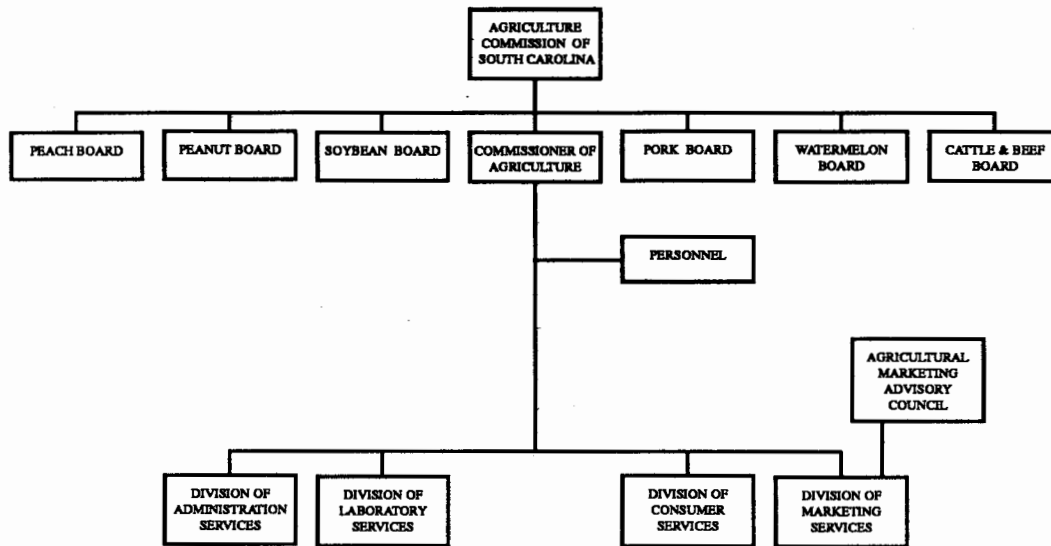
Sir: With pleasure I submit to you and members of the General Assembly this eighty-seventh annual report of the South Carolina Department of Agriculture covering services and programs of our Department for the period of July 1, 1989 to June 30, 1990.

The services we offer touch the lives of non-farmers and farmers alike on a daily basis. We take pride and pleasure in the opportunity afforded us to serve each citizen of South Carolina.

Respectfully,

D. Leslie Tindal, Commissioner
Department of Agriculture

SOUTH CAROLINA DEPARTMENT OF AGRICULTURE



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The South Carolina Department of Agriculture, fostering agriculture for over a century, enforces more than 30 statutes relating to farmers and consumers.

The Commissioner of Agriculture for South Carolina, a Constitutional Officer elected to a four-year term, is a member of the South Carolina Development Board, and an ex-officio member of the Agriculture Commission of South Carolina, serving as secretary. He is a member of the Tobacco Advisory Commission, an ex-officio member of the Water Resources Commission, administrator for the State of the Pest Control Pact, and an advisor to the South Carolina Land Resources Commission. The Commissioner administers the noxious aquatic weeds and plant law and institutes or assists in surveys, studies or investigations of agricultural or allied economic matters if requested by the Governor or General Assembly.

The Department has four operational divisions: Administrative Services, Laboratory Services, Consumer Services and Marketing Services. A brief look at various activities of the divisions follows.

ADMINISTRATIVE - Provides for orderly coordination of staff functions such as personnel, finance, audits, budget, procurement, supply, mail room and printing, data entry, fixed assets, management, information and publications. Programs for the licensing and investigation for bonded dealers in agricultural products, seed dealers, public weighmasters and bonded storage facilities are administered. Petroleum inspection tax audits are conducted and printing of the Market Bulletin supervised. Monthly receipts, sales and usage of milk are audited to insure proper classified use of nine milk distributors, two state producers/processors, and one producer association.

LABORATORY - Handles chemical, physical and microbiological tests on foods of all types, raw agricultural products, animal feeds, seed, antifreeze and petroleum products. Tests are performed in conjunction with regulations enforced, including ground meat, frozen desserts, vitamin and mineral enriched products, canned foods, milk, butterfat and petroleum products. Aflatoxin tests are conducted on grains, feed and cereal type food products. Reports are issued and registering and licensing compiled for commercial feeds, condimental feedstuffs and antifreeze. In-plant checking is made to assure compliance with the Food and Cosmetic Act.

CONSUMER SERVICES - Protects the consumer through the enforcement of the Weights and Measures Law and Egg Law. Cooperates with USDA in the enforcement of laws regulating the quality and labeling of eggs and weighing practices at livestock markets and meat processors. Draws official samples of animal feeds, seeds, petroleum products, produce, meats, and

enriched foods for analysis by the Laboratory Division. Calibrates petroleum transport trucks and farm milk tanks. The Metrology Laboratory, which calibrates mass, volume, and length standards with traceability to the National Bureau of Standards, is a part of this Division.

MARKETING - Responsible for programs for general marketing, grain testing, farm market facilities, surveys and services and commodity programs including marketing orders and agreements. Conducts promotional activities to stimulate agricultural economy for South Carolina farm and livestock products. Operates grading, inspection and market news for livestock, fruits, vegetables, nuts, grain, poultry and poultry products. Supervises roadside market certification programs.

TOBACCO REPORT

The South Carolina Department of Agriculture serves the state's tobacco industry with a program of communication and liaison. Personal contact is made through related organizations, businesses and media information sources. Additional contact is maintained with growers, warehousemen, buyers, tobacco companies and others on a year-round basis to anticipate and solve problems if they arise.

An Annual "Tobacco Report" is published and participation undertaken in meetings of the Tobacco Stabilization Corporation, Tobacco Workers Committee, Tobacco Growers Information Committee, Tobacco Association Committee, the 39-Member Advisory Committee, the U. S. Premium Flue-Cured program, U. S. Department of Agriculture - Agriculture Marketing Services Grading Schools, the S.C. Warehouse Association, the Pee Dee Warehouse Association, the Bright Belt Warehouse Association, the S. C. Tobacco Advisory Commission, the S. C. Farm Bureau Advisory Committee, the Flue-Cured Tobacco Advisory Committee and the S. C. Tobacco Association.

Tobacco industry exhibits are furnished for fairs, farm trade shows and tobacco tours. A tobacco marketing specialist also participates in the five-state Flue-Cured Tobacco Festival with the Perfect Bundle and Young Farmer contest. A special Tobacco Edition was published in the South Carolina Market Bulletin.

The South Carolina Department of Agriculture joined with the Clemson Extension Service, the South Carolina Farm Bureau and other organizations in urging growers to follow recommendations of the Flue-cured Premium Ripe, Grown in the USA program for their 1990 crop.

SOYBEAN REPORT

The South Carolina Department of Agriculture in association with the S. C. Soybean Board strengthened its efforts to promote soybeans, the state's number two cash crop in 1989.

On the domestic front, the Soybean Board maintained an aggressive consumer information program.

The major emphasis in 1989 was to raise the awareness of soybean oil. Through the introduction of a new soybean logo, products containing soybean oil were identified. An awareness program was launched to encourage consumers to purchase healthy soybean oil products.

In an attempt to keep South Carolina growers competitive, the Soybean Board funded seven research projects at Clemson University, which included marketing and crop pest problems.

On the international front, the Soybean Board continued to support aggressive market expansion programs around the world. The Western Europe soybean oil promotion programs continue to reap large benefits. Not only were total soybean oil sales up significantly, but the number of identifiable soybean oil products also increased. With Europe one of our largest customers, South Carolina producers were direct beneficiaries of this particular program.

The year 1989 proved to be an improved one for the state's growers. The total bushels of soybeans produced were up from the previous year and demand both domestically and internationally increased.

CATTLE AND BEEF REPORT

The South Carolina Cattle and Beef Board, funded by a 50 cents instate assessment, provides funds for use in program areas of beef promotion, advertisement, research and consumer information in programs developed through an annual marketing plan.

Diet and health received top priority during the fiscal year with efforts centering on work with physicians and dietitians to show that beef can be included in a low calorie, low fat diet.

The "Change of Plate" kit, designed to assist dietitians with teaching consumers methods of reducing fat and calories in meat while still receiving meat's nutritional benefits, was distributed to over 200 dietitians in the state. The "Munchster" kit, to help preschoolers understand and practice

good nutritional habits, was furnished to over 515 preschools in the state.

Retail exhibits were held in conjunction with retail expos and conventions and point of purchase materials and beef retail promotion planners were provided to all retail chains headquartered in the state. Consumer programs, cooking schools and educational exhibits were conducted on a regular basis. Recipe booklets and nutritional information pamphlets were made available to consumers. Television programs featuring beef and its preparation were conducted on regular schedules and food releases were distributed to food editors bimonthly.

In conjunction with the South Carolina CattleWomen, the South Carolina Cattle and Beef Board sponsored the South Carolina Beef Cook-off. The board produced and published a producer publication entitled "Beef News." A nutritional newsletter, "Beef Bulletin," was published twice per year and provided to dietitians and other health professionals over the state.

PORK REPORT

Organized under the S. C. Agricultural Commodities Act of 1968, the South Carolina Pork Board also operates under the Federal Pork Promotion, Research and Consumer Information Act of 1985 and in cooperation with the South Carolina Department of Agriculture.

The South Carolina Pork Board strived to promote the product in a variety of ways. The "Other White Meat" campaign was a tremendous success as the introduction of the "Chef's Prime" and "America's Cut" generated strong increases in sales. The McDonald's chain returned the "McRib" sandwich to its offerings to help in the increased demand for fresh pork products. Pork exports also increased.

Every available medium was used by the Board to promote pork including a radio advertising campaign with the Clemson Sports Network for football in '89 and basketball in '90. Early in 1990, a television advertising campaign was used on four stations to promote pork. Cooperative funding was received for the undertaking.

The consumer representative for pork coordinated efforts with consumers, providing emphasis on public service programming on radio, television and in the print media. Food shows, home economics programs, festivals and similar activities were also stressed. The South Carolina Pork Council Women were active pork promoters as a part of the South Carolina Pork Producers Association.

Many activities of the Clemson Extension Service were supported with board funds, including 4-H projects in Orangeburg and Williamsburg counties, the State Fair Barrow Show, state 4-H judging team and various pork cooking schools. Support was given a research project at Clemson University on a continuous basis.

Pork barbecue related events were popular over the state in towns and cities such as Hemingway, Darlington, Charleston, Columbia, Williamston, Sumter and others. The annual Chitlin' Strut continued in Salley.

The 1990 Pork Conference, held for the 19th year, was staged in Columbia February 7-9.

PEACH REPORT

In a 1989 season of both good and bad news, grower members of the South Carolina Peach Marketing Agreement completed their third year of operation.

They engaged in projecting their weekly volume and provided retailers advance FOB prices to enable them to feature and promote South Carolina peaches at attractive retail price levels. This activity kept volume moving and avoided a glut of peaches on the terminal markets. It also prevented FOB prices for 2 and 1/4 inch peaches from dropping below \$9 per 38-pound carton.

Increased prices were part of the good news for peach producers, but reduced volume and size due to frost and cold damage in the spring and decreased quality due to cold damage and excessive harvest time moisture was part of the bad news.

The South Carolina Peach Board, which administers the marketing agreement, continued its trade promotion to retail produce directors of major supermarket chains. The 1989 promotion was expanded beyond the Northeast to include retail produce directors in the midwestern states of Illinois, Indiana, Iowa, Michigan, Minnesota, Ohio and Wisconsin.

Trade promotions included an advertising incentive program for the purpose of motivating retail produce directors to place feature ads for South Carolina peaches. Point-of-sale material and ad slicks were shipped to retailers requesting them. They also received the trade newsletter. Personal field merchandising calls also were made.

A co-operative promotion between the South Carolina Peach Board and Nabisco's Royal Desserts was developed and made available to the retail trade, supported by point-of-sales cards and recipe tear-offs featuring a \$1 rebate on the purchase of peaches.

WATERMELON REPORT

The South Carolina Watermelon Board was assisted by the South Carolina Department of Agriculture and the South Carolina Watermelon Association in marketing and promoting watermelons during fiscal year 1989-90.

Both in-state and out-of-state activities were designed to promote the nutritional benefits and refreshing taste of South Carolina grown watermelons. Research funds were allocated to Clemson University for work with new seeded and seedless varieties and improved horticultural practices.

The South Carolina Watermelon Board is funded by an assessment of one cent per 100 weight of watermelons produced or sold in South Carolina.

PEANUT REPORT

The South Carolina Peanut Board, consisting of seven growers elected by fellow growers, is funded by an assessment of \$2.00 per ton of raw in-shell peanuts levied against the peanut farmers. These funds are used by the Board for agronomic research, promotion, consumer education and grower education.

Agronomic research is conducted by Clemson University at the Edisto Research and Education Center near Blackville. Research includes variety trials, pesticide tests, harvesting methods and post harvest handling.

Promotional and consumer education efforts are conducted at state and county fairs, food shows, schools, and health screening tests. The Board donates packages of roasted peanuts to non-profit groups and helps sponsor the Pelion Peanut Party.

TOMATO REPORT

The South Carolina Tomato Association is a voluntary organization funded by a 15 cents assessment per 25-pound box of commercial tomatoes.

Funds are administered by the officers and executive director of the association, located in Charleston.

The association represents the interests of growers in regards to research funding, environmental concerns and market development.

The South Carolina tomato industry has consolidated in recent years with fewer growers, but has a volume which is

slightly higher than the early 80's. The Tomato Association manages the integrated pest management program for the growers.

COMMODITY PROMOTION AND CONSUMER INFORMATION REPORT

Marketing specialists with the South Carolina Department of Agriculture promoted commercial food commodities throughout the state during the fiscal year with information on utilization ideas, selection, storage, nutritional value and availabilities. Methods included weekly newspaper food columns, regular news releases, and monthly radio and television programs.

Participation in fairs, festivals, trade shows, food expos and cooking schools helped to further enhance the visibility of South Carolina produced foods. Informational brochures with recipes on many local foods were distributed at various functions in addition to being made available by mail requests. These materials also were dispersed through roadside and farmers markets, pick-your-own operations, South Carolina Welcome Centers, clubs and numerous other agencies. Promotional assistance was furnished to commodity boards, associations and other groups via cooking contests, printed materials, exhibits and displays. Programs of consumer interest were conducted in cooperation with other agencies, food growers and processors and agri-business representatives.

POULTRY GRADING REPORT

Grading for poultry, shell eggs and the inspection of egg products is offered to farmers, poultry producers and processors by the South Carolina Department of Agriculture in cooperation with the United States Department of Agriculture. This grading is upon request by individual firms and governmental agencies.

South Carolina Department of Agriculture employees, licensed by the USDA in compliance with the Agricultural Marketing Service, perform this grading under Federal-State supervision in official USDA facilities.

Certification is made to assure these graded products meet requirements to be shipped throughout the United States and exported to foreign countries. Products are checked to meet the specifications for the military, USDA school lunch programs, chain stores and other institutional and governmental agencies.

During the fiscal year, 187,941,708 pounds of poultry were graded, 103,683,780 dozens of eggs were graded and 14,833,168 pounds of egg products were inspected with a value of \$248,194,947.

FRUIT AND VEGETABLE GRADING REPORT

Grading and inspection services are offered at various shipping point and market locations in cooperation with the U.S. Department of Agriculture. In 1989, a total of 48 shipping point inspectors were available at packing houses and in the field, working out of seasonal offices in Beaufort, Charleston, Johnston and Greenville. Commodities inspected at shipping point were peaches, tomatoes, apples, cucumbers, peanuts, watermelons and nectarines.

The total number of applicants requesting shipping point inspection was 45 with 4,012 trucklot equivalents inspected and certified according to U.S.D.A. specification.

Grading service is offered at both shipping inspection and market inspection. Shipping point inspectors are available at packing houses and in the field. They certify the product and assist growers, packing house foremen and shippers in maintaining quality control. Shipping point inspectors work out of seasonal offices in Beaufort, Charleston, Johnston and Greenville. Market inspectors are available out of the Columbia and Greenville offices to make inspections of shipments arriving anywhere in South Carolina.

In 1989, 71 applicants requested market inspection services at the Columbia State Farmers Market and locations in Columbia, Greenville, Charleston, Spartanburg and Elloree. Five full-time collaborators and the Federal Supervisor are available out of the Columbia and Greenville offices for market inspections.

Market certificates were issued for 804 carlots and 748 less than carlot equivalents. A total of 297 carlot equivalents were inspected for the Defense Personnel Support Center.

The value of all commodities inspected at receiving point was in excess of 46 million dollars.

AGRICULTURE STUDY TOURS REPORT

Sponsored by the South Carolina Department of Agriculture and the Agriculture Commission of South Carolina, a 1990 Winter Agriculture Study Tour visited and studied agriculture in Western Arizona and Southern California.

The primary purpose of the tour was to study production practices, marketing, processing, technology and agricultural policies for the fruit and vegetable crops and flowers.

The group met with growers and other industry personnel on specific visits to lettuce, spinach, broccoli, carrots,

radishes, cabbage, onion, and asparagus farms, to obtain firsthand knowledge. Spraying, harvesting, marketing, and other practices were discussed and observed. Visits were also made to fruit and vegetable packing facilities.

Visits were made to numerous greenhouse and floral operations including cut flower, potted plant, and landscape plant operations.

Participants brought back information from irrigation technology to planting tips to packaging and marketing with the basic idea of improving their operations and South Carolina agriculture in general.

SMALL FARMS REPORT

The South Carolina Department of Agriculture's Small Farms Program sponsored a "Small Farms Marketing Education Show and Tell Field Trip" to Virginia State University in Petersburg, VA. Forty-one small farmers and resource personnel participated.

There were tours of Randolph Farms to explore alternative crops for small farmers, such as aquaculture, shiitake mushrooms, hydroponics, belgian endive and landscaping shrubs.

ROADSIDE MARKETS REPORT

The Certified Roadside Market Incentive Program during the fiscal year presented new roadside market signs to 26 owner/operators in South Carolina.

This program helps to improve roadside markets and the quality of products sold by promoting fair and honest marketing practices, and safety, while encouraging sanitation and cleanliness. Participation is voluntary.

More than 100 roadside markets requested brochures for their markets with interest ranging from berries, squash and tomatoes to watermelons, peaches and cucumbers.

In an effort to promote roadside markets in South Carolina, each certified market owner received a colorful Farm Fresh T-shirt and apron which emphasized quality.

FRUIT AND VEGETABLE MARKET NEWS REPORT

In a joint effort with the U.S. Department of Agriculture, the Fruit and Vegetable Market News Service distributed marketing information to producers, distributors and consumers. A total of 52 issues of weekly printed reports was

issued with information from wholesale warehouses at the Columbia State Farmers Market, South Carolina farmers' sheds and F.O.B. prices. There were a total of 9,533 copies mailed and 1,300 copies hand delivered.

Daily producer price information is furnished by a recording device, and daily radio programs with general marketing information on fruits, vegetables, grain and livestock are taped. The Market News Office uses a USDA electronic communication system for nation-wide distribution through the Associated Press and United Press International.

South Carolina tomato marketing information was made available during the commercial harvesting times. Information was published daily by the Federal-State Market News Service office at Thomasville, Ga. and distributed by mail. South Carolina watermelon information was reported in cooperation with the Columbia based office. Shipments, F.O.B. prices and terminal market prices were released by USDA electronic communication system news releases and the Southeastern Watermelon Report daily. A Peach Market News Office was operated in Columbia, manned by a Federal Market News reporter. Peach information was printed in the Southeastern Peach Report for 46 issues with 4,600 copies mailed. Telephone recorders at Johnston and Spartanburg furnished daily peach marketing data. Daily grain market news information from 22 South Carolina points and Chicago Grain Futures prices were available.

INTERNATIONAL TRADE REPORT

The South Carolina Department of Agriculture provided assistance to farmers, producers, processors, agribusiness firms and individuals in negotiating foreign trade contacts and sales which helped food and agricultural exports generate more than 221 million dollars during fiscal year 1989.

Assistance included: listing South Carolina farmers and firms with the Agricultural Information and Marketing Service of the U.S. Department of Agriculture which offered regular computerized trade leads, and a weekly newsletter called "Export Briefs" listing South Carolina agricultural products for foreign distribution.

Some export activities were developed through a regional export group, the Southern United States Trade Association (SUSTA). South Carolina acted independently when advantageous. Foreign trade leads were produced by telex and fax machines. South Carolina agricultural tours were arranged for groups from Canada, England, Germany, Taiwan, Japan, Costa Rica, France and Venezuela.

South Carolina participated in a number of trade shows/activities during the year including the annual Caribbean Trade Show in San Juan, Puerto Rico; Pecan Sales Mission to England, The Netherlands and West Germany; FOODASIA in Singapore and ANUGA in West Germany. Snack foods, miscellaneous food processed items, fresh fruits and vegetables, meats and bulk agricultural commodities were sold to buyers around the world.

Various international trade seminars and programs were planned, as well as the annual S.C. International Trade Conference.

Cooperation was continued with the South Carolina District Export Council, the International Marketing Offices of the State Ports Authority, the U.S. Department of Commerce, the State Development Board and other groups.

DOMESTIC MARKET CONTACTS

South Carolina Department of Agriculture specialists concentrated on retention and expansion of domestic marketing contacts in the eastern half of the United States. Visits were made to the major marketing areas to solidify sales of South Carolina agricultural products.

Calls were made on receivers in Boston, Chicago, New York - New Jersey area, Philadelphia, Cincinnati, Central Florida and other major consumption markets. Activity was again increased in the regional marketing areas of North Carolina and Georgia.

Participation in national marketing conventions and exhibitions such as Produce Merchandisers Association and United Fresh Fruit and Vegetable Association gave opportunities to not only promote South Carolina products but gain vital information on consumer preference, packaging, new product and their availability and potential for South Carolina production.

Membership in agribusiness organizations substantiate and increase marketing contacts. South Carolina Department of Agriculture marketing personnel are members of the National Watermelon Association, Southeastern Peach Association, National Cattlemen Association and other agricultural related groups.

LIVESTOCK MARKET NEWS REPORT

The South Carolina Department of Agriculture's Livestock Market News and Grading Division works in cooperation with the U. S. Department of Agriculture to provide producers, buyers,

sellers and members of the livestock industry with accurate and unbiased marketing information.

During the fiscal year, information was collected and disseminated at thirteen auction markets across the state. Marketing information was collected and disseminated on 193,083 head of cattle, a four percent decrease from last year. Reports were collected and released on 138,000 head of hogs sold at auction and 682,840 head which moved through ten direct buying stations across the state. These figures reflect a 12 percent increase in auction hogs and a 4 percent decrease in direct hogs.

Livestock Market News and Grading personnel graded and disseminated information on 17,842 head of feeder pigs at three locations (Kingstree, Estill and Orangeburg), a 44 percent decrease over last year.

Market News personnel continued reporting special livestock sales this year, disseminating information on 7,748 head of livestock with most of the volume being feeder cattle, which was an 18 percent decrease from last year.

The Eastern Direct Hog report released from the office continues to be the largest volume report disseminated. This fiscal year 4,000,000 head of hogs were reported. This volume, a 14 percent increase from last year, includes movement of hogs to packing plants and direct buying stations in Georgia, Florida, Alabama, Tennessee, Kentucky, Virginia and South Carolina.

Daily and/or weekly information continues to be broadcast over three television and 30 radio stations across the state. A total of 123 broadcasts per week are disseminated from the office with 100 broadcasts voiced by Livestock Market News personnel and 23 voiced by radio and television personnel. Information was released across the state to 40 newspapers per week.

Information on grain, fruits and vegetables as well as livestock was released on the daily broadcast of the South Carolina Network with 18 radio stations using the daily report.

Pertinent livestock and grain information continued to be released by automatic answering machines in Walterboro and Columbia with the Columbia machine receiving an average of 100 calls per month. Livestock information is released daily to the South Carolina Farm Bureau to be used on their automatic answering machine, amounting to about 300 calls per week.

The Associated Press receives and disseminates 24 South Carolina livestock reports per week through the USDA Lease Wire Service. Six daily newspapers publish reports four days a week.

Our office continues to send all South Carolina's markets and selected national markets to the Clemson University Computer Information Network known as CUFAN. This has expanded our statewide distribution into all County Extension Offices and to some private subscribers.

COLUMBIA STATE FARMERS MARKET

Fiscal year 1989-90 marked 38 years of service to farmers and consumers of South Carolina for the Columbia State Farmers Market which distributes fresh fruits and vegetables throughout South Carolina and the Eastern Seaboard.

Fresh fruits and vegetables are available year-round at the market, operated by the South Carolina Department of Agriculture. Peak months for South Carolina grown products are May, June, July and August.

The market offers numerous services for wholesalers, dealers and farmers with 64 wholesale units, 400 stalls for farmers and 26 retail sheds. Support services include a service station, restaurant, snack bar, public address system, post office, restroom facilities and a 50-ton electronic vehicle scale. Inspection services are provided by a federally licensed inspector during the summer months. This is to assure consumers of the best quality fresh fruits and vegetables possible at the Columbia State Farmers Market.

The annual South Carolina Summer Celebration in early June and Deck the Halls in early December help promote consumer awareness at the market along with frequent radio and television news features. Organized groups are invited to visit the market to obtain a better understanding of market techniques for agricultural products. Special guided tours are offered with advanced reservations.

GREENVILLE STATE FARMERS MARKET

Activity at the Greenville State Farmers Market continued at a steady pace during the fiscal year with products from other areas of South Carolina and the nation delivered to meet an ever-increasing demand by retail, institutional and wholesale buyers. Weather related factors reduced the volume supplied to the market by Up-State farmers.

A variety of products was again offered at the facility with the newest addition being South Carolina grown sod. Types and variety of fruits, vegetables and plants from local sources have increased steadily, too.

Facilities at the 25-acre site include a 14,000 plus square foot retail building along with dealers' shed, truck shed, wholesale warehouses and restaurant.

Additional services are daily market information broadcasts with produce, livestock and agricultural information; USDA licensed fruit and vegetable inspection services, marketing assistance and a regional staff home economist.

PEE DEE STATE FARMERS MARKET

The Pee Dee State Farmers Market, located near I-95, between Florence and Darlington, offers producers a market and consumers a ready source of fresh fruits and vegetables. The location itself, along with modern 45,000 square foot drive-through shed, is enjoyed by farmers and buying public alike.

The continuation of promotional activities, such as the three-day Southern Plant & Flower Festival and the Pee Dee Summer Jamboree has enhanced South Carolina Agriculture. These events are held annually to acquaint consumers with the Pee Dee State Farmers Market.

AQUACULTURE REPORT

The South Carolina Department of Agriculture supports the fast-growing aquaculture industry through marketing assistance, market development and promotional programs and activities. Producers are supplied information, services and assistance needed to receive aquaculture permits.

Industry activities during the fiscal year have included promotion of catfish and crawfish at South Carolina fairs, Crawfish Festival, Farm-City Week, Autumn Fest, Beaufort Seafood Show and the Coastal Plains Farm Show. The Department helps the industry through food service expositions, trade shows, food and recipe demonstrations, market calls and by supplying brochures and producer information.

The South Carolina Department of Agriculture assists the 165-member Aquaculture Association which represents catfish, crawfish, shrimp, hybrid bass, clams and oysters, processors and suppliers.

In a continued effort to establish the State Farmers Markets as an outlet for aquaculture products, crawfish were added to sales items at the Columbia State Farmers Market during the fiscal year.

ORNAMENTAL HORTICULTURE & FLORICULTURE

The ornamental horticulture program continued to research the depths of the industry during its second year of operation. A strong effort was maintained to make contact with growers over the state to determine their needs and to evaluate the type of assistance needed.

Two major projects were initiated during the fiscal year. They included a "Plant Availability Listing" allowing growers to advertise plants they have available in a listing compiled by the South Carolina Department of Agriculture and mailed to garden centers, landscapers and landscape architects located across the Southeast. This listing was updated and mailed out twice per month.

The second was a survey of the industry to estimate the value of the industry, to determine the states that shipped the greatest amounts of plant material into South Carolina and to evaluate the perceptions of buyers' attitudes towards plant material grown in our state compared to that grown out of state.

A representative of the Department serves on various boards of state grower associations. Information on the ornamental horticulture industry was furnished to members of the general public and participation was undertaken at festivals and fairs. The print media also was provided information.

EQUINE REPORT

During the final four months of fiscal year 1989-90, steps were taken to revive the services of the South Carolina Department of Agriculture to the state's equine industry.

Plans were begun to conduct an up-to-date census of the equine population and information was being compiled for a South Carolina Equine Industry Directory to catalog farms, organizations and all related services for the industry.

Workshops and seminars were held statewide to educate and inform the general public about industry related legislation and to assist in the protection and care of the horse.

The Department's equine specialist works closely with various breed associations, organizations, clubs, shows, facilities, 4-H groups and others on the state and national level.

The South Carolina Department of Agriculture serves as a resource for anyone needing information on the state's equine industry.

FINANCIAL COMPARISON OF COLLECTIONS
BY FISCAL YEARS
NET RECEIPTS
DEPOSITED TO GENERAL FUND

Fiscal Year	Collections
1933-34	\$ 245,382.12
1934-35	280,609.60
1935-36	336,629.08
1936-37	341,765.93
1937-38	353,953.33
1938-39	405,737.81
1939-40	453,070.27
1940-41	498,015.33
1941-42	508,436.87
1942-43	485,766.19
1943-44	464,385.25
1944-45	489,213.25
1945-46	578,447.04
1946-47	696,136.12
1947-48	707,284.20
1948-49	832,261.80
1949-50	889,390.76
1950-51	1,004,553.28
1951-52	1,091,177.11
1952-53	1,180,741.50
1953-54	1,213,632.69
1954-55	1,312,073.15
1955-56	1,378,722.21
1956-57	1,407,188.97
1957-58	1,453,103.10
1958-59	1,455,880.69
1959-60	2,743,007.74
1960-61	2,938,340.75
1961-62	2,975,791.94

Fiscal Year	Collections
1962-63	\$ 3,187,814.50
1963-64	3,285,076.67
1964-65	3,419,206.53
1965-66	3,656,641.66
1966-67	3,653,037.42
1967-68	3,894,694.18
1968-69	4,096,680.04
1969-70	4,314,837.08
1970-71	4,484,907.46
1971-72	4,834,497.31
1972-73	5,260,505.50
1973-74	5,096,291.67
1974-75	5,134,897.42
1975-76	5,161,383.77
1976-77	5,736,483.95
1977-78	5,958,203.81
1978-79	5,883,751.08
1979-80	5,326,252.04
1980-81	5,667,821.12
1981-82	5,151,535.34
1982-83	4,969,520.56
1983-84	5,284,712.44
1984-85	5,545,511.72
1985-86	5,714,835.53
1986-87	5,953,678.74
1987-88	6,167,930.60
1988-89	6,217,460.94
1989-90	6,476,396.37

GENERAL REVENUE RECEIPTS (NET) AND DEPOSITS TO STATE TREASURER

	TOTAL REVENUE FUND	INDIRECT COST RECOVERIES	DEALERS & HANDLERS LICENSE	PENALTIES	CONDIMENTAL FEEDSTUFFS	PETROLEUM INSPECTION FEES
Net Receipts FY 1989-90	\$6,476,396.37	\$13,936.35	\$9,870.00	\$16,956.53	\$1,020.00	\$6,403,378.61
Deposited to General Fund 1989-90	\$6,476,396.37	\$13,936.35	\$9,870.00	\$16,956.53	\$1,020.00	\$6,403,378.61

SEED LICENSE INSPECTION	PRIOR YEARS APPROPRIATIONS	ANTIFREEZE INSPECTION COST
\$27,551.50	\$433.38	\$3,250.00
\$27,551.50	\$433.38	\$3,250.00

EARMARKED AND RESTRICTED FUNDS RETAINED BY THE TREASURER 1989-90

	TOTAL EARMARKED RESTRICTED TRUST & SPEC. FUNDS	PROMOTIONAL DONATIONS FUNDS	DEALERS & HANDLERS GUARANTEE FUND	EGG SURVEILLANCE FUNDS	PUBLIC WEIGH- MASTER	CAPITAL IMPROVEMENT PROCEEDS
Fund Balance at July 1, 1989	\$3,949,120.72	\$ 4,285.01	\$1,961,816.24	\$ 933.83	\$28,187.96	\$152,733.89
Net Receipts 1989-90	1,667,951.13	8,900.00	446,844.70	8,800.00	7,643.50	135,629.91
Total Fund Available 1989-90	\$5,617,071.85	\$13,185.01	\$2,408,660.94	\$9,733.83	\$35,831.46	\$288,363.80
Less: Disbursements	1,078,526.89	9,970.77	3,959.93	9,723.84	2,338.63	192,469.31
Fund Balance at June 30, 1990	\$4,538,544.96	\$ 3,214.24	\$2,404,701.01	\$ 9.99	\$33,492.83	\$ 95,894.49

WAREHOUSE DIVISION REVOLVING FUND	WAREHOUSE DIVISION GUARANTEE FUND	FEDERAL PROJECTS	DUAL EMPLOYEE FUND	SALE OF ASSETS FUND	CASH BOND	CAPITAL PROJECT IMP. BOND	MOBIL HAY ANALYSIS	PEACH FESTIVAL MARKETING
\$ 41,622.60	\$1,742,879.84	\$11,302.33	\$ 352.71	\$3,506.31	\$1,500.00	\$.00	\$.00	\$.00
139,543.21	167,797.63	11,521.60	3,877.41	3,650.00	.00	706,030.17	2,713.00	25,000.00
\$181,165.81	\$1,910,677.47	\$22,823.93	\$4,230.12	\$7,156.31	\$1,500.00	\$706,030.17	\$2,713.00	\$25,000.00
119,462.62	.00	1,326.72	3,944.90	4,300.00	.00	706,030.17	.00	25,000.00
\$ 61,703.19 ⁽¹⁾	\$1,910,677.47	\$21,497.21	\$ 285.22	\$2,856.31	\$1,500.00	\$.00	\$2,713.00	\$.00

(1) This balance does not include a \$12,000 loan to Pee Dee Market.

MARKETING SERVICES FUNDS RETAINED BY THE STATE TREASURER 1989-90

	TOTAL MARKETING SERVICES	OPERATION & MAINTENANCE COLUMBIA MARKET	GREENVILLE FARMERS MARKET	PEE DEE FARMERS MARKET	GRADING INSPECTION FRUITS & VEGETABLES	GRADING INSPECTION GRAIN INSPECTION
Fund Balance at July 1, 1989	\$ 399,234.47	\$147,344.19	\$ 18,690.01	\$ 4,688.27	\$ (7,928.61)	\$116,110.21
Net Receipts 1989-90	2,331,506.21	690,229.78	107,718.77	49,917.57	410,822.00	309,661.30
Total Available Fund 1989-90	\$2,730,740.68	\$837,573.97	\$126,408.78	\$54,605.84	\$402,893.39	\$425,771.51
Less: Disbursement	2,332,121.32	779,031.83 ⁽¹⁾	108,947.02	47,490.42	443,589.41	228,114.65
Fund Balance at June 30, 1990	\$ 398,619.36	\$ 58,542.14	\$ 17,461.76	\$ 7,115.42	\$ (40,696.02)	\$197,656.86

GRADING INSPECTION POULTRY & EGG	LIVESTOCK GRADING & INSPECTION FUND	MARKET NEWS SERVICE	COUNTY PROJECTS
\$115,252.15	\$2,575.08	\$1,869.23	\$633.94
755,065.84	1,340.95	6,750.00	.00
\$870,317.99	\$3,916.03	\$8,619.23	\$633.94
713,052.07	3,743.42	8,152.50	.00
\$157,265.92	\$ 172.61	\$ 466.73	\$633.94

(1) This figure includes transfer of \$80,000 to Capital Project.

COMMODITY BOARDS (MARKETING ORDERS) FUNDS RETAINED BY THE STATE TREASURER 1989-90

	TOTAL COMMODITY BOARDS	SOYBEAN BOARD MARKETING ORDER #1	SWEET POTATO BOARD MARKETING ORDER #2	PORK BOARD MARKETING ORDER #4	EGG BOARD MARKETING ORDER #5	PEANUT BOARD MARKETING ORDER #6
Fund Balance at July 1, 1989	\$ 445,879.41	\$111,151.87	\$6,208.33	\$ 67,971.97	\$33,889.37	\$29,061.28
Net Receipts 1989-90						
Assessments Less Refunds	706,782.29	148,725.82	.00	145,645.67	(3,701.96)	14,203.57
Other Receipts	15,294.02	1,027.25	.00	7,240.00	2,576.77	4,450.00
Total Funds Available	\$1,167,955.72	\$260,904.94	\$6,208.33	\$220,857.64	\$32,764.18	\$47,714.85
Less: Disbursements	709,753.93	133,468.39	.00	123,377.55	32,764.18	30,167.63
Fund Balance at June 30, 1990	\$ 458,201.79	\$127,436.55	\$6,208.33	\$ 97,480.09	\$.00	\$17,547.22

WATERMELON BOARD MARKETING ORDER #7	PEACH BOARD MARKETING ORDER #8	CATTLE & BOARD MARKETING ORDER #9	KIWIFRUIT BOARD MARKETING ORDER #10
\$ 8,542.34	\$ 91,508.14	\$ 97,540.36	\$5.75
17,745.28	142,922.71	241,241.20	.00
.00	.00	.00	.00
\$26,287.62	\$234,430.85	\$338,781.56	\$5.75
13,614.49	131,992.88	244,368.81	.00
\$12,673.13	\$102,437.97	\$ 94,412.75	\$5.75

ANNUAL REPORT
CONSUMER SERVICES DIVISION
1989 - 1990

31,629 firms worked during 1989-1990

Samples Drawn:	2,272 feeds	2,756 gasoline	260 fuel oils
	3,064 seeds	239 kerosene	2,486 produce
	1,388 meats	176 enrichments	

For a total of 12,641 samples

Stop Orders issued: 637

86 seed licenses collected in the amount of \$1,401.50

9 farm milk tanks calibrated	55.6% incorrect
29,556 scales inspected	1.2% incorrect
1,311 large capacity scales inspected	2.5% incorrect
954 vehicle scales inspected	14.6% incorrect
62 monorail scales inspected	all correct
155 livestock scales inspected	1.9% incorrect
18 hopper scales inspected	11.1% incorrect
508 tobacco scales inspected	0.06% incorrect
493 tobacco trucks inspected	2.4% incorrect
5,845 sheets of tobacco inspected	1.4% incorrect
240 cotton scales inspected	all correct
12 cotton trucks inspected	all correct
69,231 gasoline pumps inspected	0.9% incorrect
5,551 diesel pumps inspected	1.2% incorrect
4,533 kerosene pumps inspected	1.3% incorrect
24,448 invoices for octane inspected	0.5% mislabeled
31,196 tests for water made	0.8% excess water
987 fuel oil meters inspected	8.2% incorrect
532 LP gas meters inspected	34.0% incorrect
261 LP gas cylinders inspected	0.4% incorrect
175 loading rack meters inspected	21.7% incorrect
653,329 paper products inspected	0.1% incorrect
985 weights inspected	0.07% all correct
886 linear measures inspected	0.1% incorrect
56,091 lots of seed inspected	0.4% incorrect
254,871 lots of feed inspected	all correct
328,372 packages of food inspected for enrichment labeling	0.009% incorrect
368,573 packages weighed representing 3,855,485 packages inspected	1.2% incorrect
21,920 lots of eggs representing 3,174,747 dozen inspected for grade and weight, 57 lots or 7,857 dozen condemned	
3,031,350 dozen eggs inspected for labeling - 4,612 dozen incorrect	
1,430,865 eggs candled	
62 stop orders issued on eggs	
10,004 firms inspected for refrigeration of eggs	- 0.4% did not
7,895 firms inspected for egg invoice	- 0.3% did not
4,413 firms inspected for egg licenses	- 0.5% did not

NOTE: Percent incorrect includes positive as well as negative errors beyond established tolerances.

METROLOGY LABORATORY REPORT
Fiscal 1989/90

A) Grain Moisture Meter Program

42 official laboratory moisture tests
756 standard moisture samples prepared for field tests
509 firms worked during 1989-90
378 commercial grain moisture meters inspected - 31 or 8.2% incorrect
198 noncommercial or farm meters inspected - 83 or 41.9% incorrect
352 grain moisture balances inspected - all correct

B) Measurement Calibrations

66 portable wheel-load weighers - 1 or 1.5% incorrect
967 large capacity test weights (25 lbs. and above) - 499 or 51.6% incorrect
1012 small capacity test weights - 112 or 11.1% incorrect
757 metric test weights - 108 or 14.3% incorrect
487 precision mass standards - 77 or 15.8% incorrect
258 precision mass standards - Values assigned
59 volume standards - 21 or 35.6% incorrect
2 large provers (50 gallons and above) - both correct
5 other official measurements

PETROLEUM CARRIERS

Transports calibrated 27
Delivery trucks calibrated 3

ANNUAL REPORT

DEALERS AND HANDLERS OF AGRICULTURAL PRODUCTS

PUBLIC WEIGHMASTERS AND DEPUTY WEIGHMASTERS

COTTON AND GRAIN WAREHOUSE AUDITS

DEALERS AND HANDLERS ASSESSMENT AUDITS

FISCAL YEAR 1989 - 1990

TOTAL NUMBER OF DEALER AND HANDLER LICENSES ISSUED
JULY 1, 1989 - JUNE 30, 1990 - - - - - 203

TOTAL NUMBER OF LICENSED DEALERS AND HANDLERS
AS OF JUNE 30, 1990 - - - - - 271

SURETY BOND - - - - 245
CASH AFFIDAVIT - - 14
MILLERS AFFIDAVIT - 12

TOTAL NUMBER OF WEIGHMASTER AND DEPUTY WEIGHMASTER
LICENSES ISSUED JULY 1, 1989 - JUNE 30, 1990 - - - - - 1,008

TOTAL NUMBER OF LICENSED PUBLIC WEIGHMASTERS AND DEPUTY PUBLIC
WEIGHMASTERS AS OF JUNE 30, 1990 - - - - - 3,029

PUBLIC WEIGHMASTERS - - - - 511
DEPUTY PUBLIC WEIGHMASTERS - 2,518

TOTAL NUMBER OF COTTON WAREHOUSE AUDITS FOR THE FISCAL YEAR
JULY 1, 1989 - JUNE 30, 1990 (includes 19 tag checks) - - - - 226

TOTAL NUMBER OF GRAIN WAREHOUSE AUDITS FOR THE FISCAL YEAR
JULY 1, 1989 - JUNE 30, 1990 - - - - - 360

TOTAL NUMBER OF DEALER AND HANDLER ASSESSMENT AUDITS FOR THE
FISCAL YEAR JULY 1, 1989 - JUNE 30, 1990 - - - - - 222

DEPARTMENT OF AGRICULTURE
WAREHOUSE DIVISION
ANNUAL GRAIN REPORT ENDING JUNE 30 1990

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WHSE #	COMMOD	BEG BALANCE	GRAIN IN	GRAIN OUT	END BALANCE	END VALUE
1242G	RYE	1,798.79	.00	1,798.79	.00	.00
	SOY	650,000.00	1,709,204.70	1,519,204.70	840,000.00	5,040,000.00
	YCN	50,000.00	.00	50,000.00	.00	.00
1411G	SOY	60,000.00	175,000.00	235,000.00	.00	.00
1416G	SOY	60,000.00	180,000.00	240,000.00	.00	.00
	YCN	3,365.00	912.81	4,277.81	.00	.00
1463G	YCN	79,747.00	.00	79,747.00	.00	.00
1485G	YCN	66,000.00	.00	66,000.00	.00	.00
1492G	SOY	.00	2,360.00	2,360.00	.00	.00
1498G	SOY	.00	60,000.00	40,000.00	20,000.00	113,000.00
	YCN	37,911.21	40,000.00	72,911.21	5,000.00	8,750.00
1511G	WHT	135.56	.00	135.56	.00	.00
1529G	YCN	4,890.70	.00	4,890.70	.00	.00
1534G	OAT	14,266.57	5,000.00	9,266.57	10,000.00	18,750.00
	WHT	40,000.00	71,769.96	66,769.96	45,000.00	155,000.00
	YCN	10,000.00	7,631.66	17,631.66	.00	.00
1543G	SOY	.00	25,238.74	25,238.74	.00	.00
	WHT	.00	35,046.50	.00	35,046.50	102,686.25

DEPARTMENT OF AGRICULTURE
WAREHOUSE DIVISION
ANNUAL GRAIN REPORT ENDING JUNE 30 1990

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WHSE #	COMMOD	BEG BALANCE	GRAIN IN	GRAIN OUT	END BALANCE	END VALUE
1550G	YCN	5,000.00	21,000.00	26,000.00	.00	.00
1551G	WHT	20,000.00	.00	20,000.00	.00	.00
	YCN	70,000.00	190,000.00	260,000.00	.00	.00
1567G	RYE	14,353.00	.00	14,353.00	.00	.00
	SOY	.00	7,000.00	7,000.00	.00	.00
	WHT	2,000.00	.00	2,000.00	.00	.00
1584G	SOY	25,671.55	55,425.13	81,096.68	.00	.00
	YCN	.00	3,206.21	3,206.21	.00	.00
1585G	OAT	.00	4,394.00	4,394.00	.00	.00
	SOY	.00	4,358.00	4,358.00	.00	.00
	WHT	.00	22,058.00	10,011.00	12,047.00	36,343.35
1595G	OAT	.00	1,030.30	1,030.30	.00	.00
	SOY	.00	27,333.18	27,333.18	.00	.00
	YCN	12,031.22	.00	12,031.22	.00	.00
1598G	SOY	.00	1,066.45	1,066.45	.00	.00
1602G	WHT	10,000.00	.00	10,000.00	.00	.00
	YCN	.00	80,000.00	80,000.00	.00	.00
1604G	SOY	.00	8,500.00	8,500.00	.00	.00
	YCN	1,326.37	370.09	1,326.37	370.09	925.23

DEPARTMENT OF AGRICULTURE
WAREHOUSE DIVISION
ANNUAL GRAIN REPORT ENDING JUNE 30 1990

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WHSE #	COMMOD	BEG BALANCE	GRAIN IN	GRAIN OUT	END BALANCE	END VALUE
1607G	SOY	2,870.39	12,814.11	14,317.76	1,366.74	7,517.07
	WHT	.00	10,059.53	10,059.53	.00	.00
1608G	OAT	7,500.00	.00	7,500.00	.00	.00
	SOY	.00	10,000.00	10,000.00	.00	.00
	WHT	75,000.00	.00	75,000.00	.00	.00
	YCN	.00	25,000.00	25,000.00	.00	.00
1611G	SOY	.00	23,000.00	23,000.00	.00	.00
	YCN	.00	8,000.00	8,000.00	.00	.00
1617G	YCN	.00	24,500.71	24,500.71	.00	.00
1625G	OAT	20,000.00	.00	10,000.00	10,000.00	15,000.00
	WHT	150,000.00	.00	150,000.00	.00	.00
	YCN	23,996.00	95,000.00	103,996.00	15,000.00	36,000.00
1627G	YCN	3,919.20	.00	3,919.20	.00	.00
1632G	OAT	.00	12,000.00	7,500.00	4,500.00	6,750.00
	SOY	.00	2,887.00	963.00	1,924.00	10,582.00
	YCN	7,500.00	22,000.00	28,500.00	1,000.00	2,750.00
1634G	WHT	25,000.00	.00	25,000.00	.00	.00
1635G	OAT	.00	15,000.00	15,000.00	.00	.00
	SOY	.00	11,118.48	11,118.48	.00	.00

DEPARTMENT OF AGRICULTURE
WAREHOUSE DIVISION
ANNUAL GRAIN REPORT ENDING JUNE 30 1990

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WHSE #	COMMOD	BEG BALANCE	GRAIN IN	GRAIN OUT	END BALANCE	END VALUE
1635G	WHT	25,000.00	.00	25,000.00	.00	.00
	YCN	.00	25,000.00	25,000.00	.00	.00
TOTALS:		1,579,282.56	3,034,285.56	3,612,313.79	1,001,254.33	5,554,053.90

DEPARTMENT OF AGRICULTURE
WAREHOUSE DIVISION
ANNUAL GRAIN SUMMARY REPORT BY COMMODITY

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COMMODITY	BEGINNING BALANCE	TOTAL GRAIN IN	TOTAL GRAIN OUT	ENDING BALANCE	END VALUE
BUSHELS OF BARLEY	.00	.00	.00	.00	.00
BUSHELS OF OATS	41,766.57	37,424.30	54,690.87	24,500.00	40,500.00
BUSHELS OF RYE	16,151.79	.00	16,151.79	.00	.00
BUSHELS OF SEED BARLEY	.00	.00	.00	.00	.00
TONS OF SEED COTTON	.00	.00	.00	.00	.00
BUSHELS OF SOYBEAN	798,541.94	2,315,305.79	2,250,556.99	863,290.74	5,171,099.07
BUSHELS OF SEED RYE	.00	.00	.00	.00	.00
BUSHELS OF SEED SOYBEAN	.00	.00	.00	.00	.00
BUSHELS OF SEED WHEAT	.00	.00	.00	.00	.00
BUSHELS OF WHEAT	347,135.56	138,933.99	393,976.05	92,093.50	294,029.60
BUSHELS OF YELLOW CORN	375,686.70	542,621.48	896,938.09	21,370.09	48,425.23
POUNDS OF SUNFLOWER SEEDS	.00	.00	.00	.00	.00

DEPARTMENT OF AGRICULTURE
WAREHOUSE DIVISION
COTTON ANNUAL SUMMARY REPORT ENDING JUNE 30 1990

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WHSE	BEG BAL	BALES-IN	BALES-OUT	END BAL
0010	1,143	1,701	2,813	31
0630	863	5,588	6,091	360
1367	890	1,567	1,489	968
2726	2,053	4,839	6,289	603
3234	1,619	7,417	8,827	209
3314	601	396	745	252
3402	126	1,957	2,065	18
3457	2,492	5,139	7,048	583
3513	1,135	1,897	2,673	359
3637	195	0	195	0
3793	929	3,766	4,333	362
3924	1,001	179	1,105	75
3973	380	2,163	2,361	182
4016	1,562	5,037	6,371	228
4024	6	0	3	3
4042	4,569	13,697	13,886	4,380

DEPARTMENT OF AGRICULTURE
WAREHOUSE DIVISION
COTTON ANNUAL SUMMARY REPORT ENDING JUNE 30 1990

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WHSE	BEG BAL	BALES-IN	BALES-OUT	END BAL
4067	417	4,695	5,027	85
4102	1,106	5,520	6,213	413
4108	1,974	8,666	9,587	1,053
4120	1,450	17,940	18,821	569
4154	2,597	3,492	5,985	104
4162	627	2,053	2,363	317
4174	3,549	4,528	6,987	1,090
4182	6,122	10,478	14,911	1,689
TOTALS	37,406	112,715	136,188	13,933

MARKET BULLETIN SUMMARY

Miscellaneous and Wanted.....	<u>3392</u>
Plants and Flowers.....	<u>1010</u>
Horses and Mules.....	<u>2011</u>
Farm Machinery and Wanted.....	<u>2504</u>
Poultry and Wanted.....	<u>1463</u>
Farm Land.....	<u>680</u>
Garden Plants.....	<u>295</u>
Hay and Grain.....	<u>1478</u>
Hogs and Pigs.....	<u>234</u>
Certified Seed and Feed.....	<u>204</u>
Farm Labor.....	<u>250</u>
Special Events.....	<u>1226</u>
Goats and Sheep.....	<u>468</u>
Rabbits and Guinea Pigs.....	<u>326</u>
Produce.....	<u>229</u>
Livestock Wanted.....	<u>222</u>
Cattle.....	<u>1004</u>
Dogs.....	<u>1982</u>
Aquaculture.....	<u>80</u>
TOTAL 19058	
Mailing list July 1, 1989.....	<u>64,565</u>
Mailing list July 1, 1990.....	<u>53,813</u>
Single Issues.....	<u>4</u>
Double Issues.....	<u>19</u>
12 Page Issues.....	<u>6</u>
Total.....	<u>26</u>

1989 - 1990

LOCATIONS AND AVAILABLE GRAIN INSPECTION SERVICE

CHARLESTON: S. C. Department of Agriculture
Grain Inspection Service
P. O. Box 5286
North Charleston, S. C. 29406
(803) 554-1311 or 747-9940

All Grains and Mobile Unit
Service for on-site sampling
and/or grading, aflatoxin
Testing (immunoassay).

FLORENCE: S. C. Department of Agriculture
Grain Inspection Service
Pee Dee State Farmers Market
Route 10, Box 15 (Highway 52 North)

All Grains and Mobile Unit
Service for on-site sampling
and/or grading, aflatoxin test-
ing (immunossay). By Appoint-
ment Through Charleston Office.

GRAIN OFFICIALLY INSPECTED BY THE GRAIN INSPECTION SERVICE OF THE S. C. DEPARTMENT OF AGRICULTURE

<u>Inspection Points</u>	<u>Commodity</u>	<u>Number of Inspections</u>	<u>Volume In Bushels</u>	<u>Value</u>
<u>Official Sample Lot Inspections</u>				
Charleston	Wheat	7,205	10,366,900	\$ 35,454,798
	Soybeans	1,895	2,807,200	16,927,416
Total:		9,100	13,174,100	52,382,214
<u>Mobile Unit Service</u>				
Charleston-General	Corn	81	259,200	\$ 622,080
	Wheat	191	581,300	1,988,046
	Soybeans	29	92,800	559,584
Total:		301	933,300	3,169,710
Total Official Sample Lot Inspections:		9,401	14,107,400	\$ 55,551,924

Submitted Sample Inspections Via U. S. Postal Service, United Parcel Service and Other

Charleston	Corn	0	0	0
	Wheat	61	337,825	1,155,362
	Soybeans	345	1,315,400	7,931,862
Total:		406	1,653,225	\$ 9,087,224
Charleston-General	Corn	94	159,900	383,760
	Wheat	70	140,650	481,023
	Soybeans	47	113,500	684,405
Total:		211	414,050	\$ 1,549,188
Total Submitted Sample Inspections:		617	2,067,275	\$ 10,636,412

VOLUME AND VALUE OF GRAIN INSPECTED IN S. C.

<u>Location</u>	<u>Number of Inspections</u>	<u>Volume in Bushels</u>	<u>Value</u>
<u>OFFICIAL</u>			
Charleston	9,100	13,174,100	\$ 52,382,214
<u>MOBILE UNIT</u>			
Charleston-General	301	933,300	\$ 3,169,710
<u>SUBMITTED</u>			
Charleston	406	1,653,225	\$ 9,087,224
Charleston-General	211	414,050	\$ 1,549,188
Grand Total:	10,018	16,174,675	\$ 66,188,336

EXPORT SHIPMENTS: S. C. Farm Bureau Grain Elevator, North Charleston, S. C.
Commodities Were Officially Inspected and Officially Weighed for shipment Into Foreign Markets

<u>Commodity</u>	<u>No. of Ships</u>	<u>Shiphold Examinations</u>	<u>Volume in Bushels</u>	<u>Value</u>
Wheat	11	19	11,160,191	\$ 40,399,891
Soybeans	<u>3</u>	<u>6</u>	<u>2,483,985</u>	<u>15,475,227</u>
Total Exported:	14	25	13,644,176	55,875,118

<u>AFLATOXIN TESTING:</u>	<u>OFFICIAL</u>	<u>SUBMITTED</u>	<u>VOLUME IN BUSHEL</u>
Charleston	0	30	96,000

VOLUME AND VALUE DIFFERENCE BETWEEN GRAIN PRODUCED AND GRAIN INSPECTED
IN SOUTH CAROLINA

<u>COMMODITY</u>	<u>BUSHEL</u> <u>PRODUCED 1/</u>	<u>BUSHEL</u> <u>*INSPECTED</u>	<u>BUSHEL</u> <u>NOT INSPECTED</u>	<u>CROP</u> <u>VALUE 1/</u>	<u>VALUE OF GRAIN</u> <u>INSPECTED</u>	<u>VALUE OF GRAIN</u> <u>NOT INSPECTED</u>
Corn	30,940,000	419,100	30,520,900	\$ 74,256,000	\$ 1,005,840	\$ 73,250,160
Wheat	17,835,000	11,426,675	6,408,325	63,314,250	40,564,696	22,749,554
Soybeans	<u>20,160,000</u>	<u>4,328,900</u>	<u>15,831,100</u>	<u>113,904,000</u>	<u>24,458,285</u>	<u>89,445,715</u>
Total:	68,935,000	16,174,675	52,760,325	251,474,250	66,028,821	185,445,429

1/ Production and Grain Value Taken From S. C. Crop Statistics - June 1990

* Total Bushels Inspected Do Not Include Grain Exported

LABORATORY STATISTICS

SOUTH CAROLINA DEPARTMENT OF AGRICULTURE 1989-1990

TOTAL NUMBER OF SAMPLES RECEIVED -----	37,988
TOTAL NUMBER OF INDIVIDUAL ANALYSES MADE ON ABOVE SAMPLES, AS ITEMIZED BY LABORATORY -----	255,815
TOTAL LICENSES, PERMITS AND REGISTRATIONS ISSUED DURING THE YEAR -----	2,869
TOTAL INSPECTIONS AND VISITS FOR FOOD AND COSMETIC LAW ENFORCEMENT -----	1,487

REGISTRATIONS, LICENSES AND PERMITS - 1989-1990

REGISTRATIONS

Gasoline, Brand Names and Octanes

New Petroleum Companies registered -----	30
Registrations cancelled by request of registrant -----	46
New Brands of gasolines registered -----	531
Registered Brands revised -----	136
Registered Brands cancelled -----	473

Commercial Feeds

New feeds registered -----	1,149
Registered feeds revised -----	460
Registrations returned for corrections -----	30
Registrations cancelled by request of registrant -----	332
Condimental feed brands registered for 1990 -----	233
Antifreeze brands registered for 1990 -----	58

Licenses and Permits

Manufacturers Frozen Desserts licenses expired -----	85
Manufacturers Frozen Desserts licenses issued -----	174
Butterfat Tester licenses issued -----	22
Butterfat Tester licenses cancelled -----	28
Butterfat Tester temporary permits issued -----	13
Butterfat Tester temporary permits cancelled -----	13
Samplers and Weighers licenses issued -----	43
Samplers and Weighers licenses cancelled -----	47
Samplers and Weighers temporary permits issued -----	20
Samplers and Weighers temporary permits cancelled -----	3
Salvagers Permits issued -----	25

SEED SECTION SUMMARY - 1989-1990

Submitted samples received -----	17,532
Certified samples received -----	2,530
Official samples received -----	2,827
Total Samples Received -----	22,889
 Purity First reports -----	 3,357
Purity Only reports -----	23
Germination Only reports -----	12,153
Purity and Germination reports -----	8,492
Total -----	24,025
 Official samples which were not for sale -----	 323
Official samples mislabeled -----	143
Official samples which could not be sold -----	79
Official samples which were standard -----	2,093
Total -----	2,638
 Total Analyses made during the year -----	 34,436
Official Stop Orders Placed -----	170
Official Stop Orders Closed -----	136

FEED SECTION SUMMARY - 1989-1990

Official feed samples received -----	2,127
Submitted feed samples received -----	550
Total official and submitted samples received -----	2,677
Official feed nutritional analyses reported -----	5,582
*Official mycotoxin analyses reported -----	119
*Official medicated analyses reported -----	399
*Official pesticide, mineral and other analyses reported -----	475
Total analyses reported on officially sampled feeds -----	6,575
Submitted feed nutritional analyses reported -----	711
*Submitted mycotoxin analyses reported -----	373
*Submitted medicated analyses reported -----	9
*Submitted microscopic assays reported -----	14
*Submitted pesticide, mineral and other analyses reported -----	564
Total analyses reported on submitted feeds -----	1,671
Total analyses reported on official and submitted feeds -----	8,246
Stop Orders placed or confirmed -----	371
Stop Orders released -----	373
Feed Warnings reported -----	445
Official and submitted sample labels checked for registration -----	2,127

*These analyses reports on other Laboratory reports -
summarized here for information only.

***MOBILE LABORATORY FOR FORAGE, SILAGE AND FEED TESTING - 1989-1990**
(Testing performed using Near Infrared Spectrophometer instrument
in a mobile laboratory)

Submitted samples received -----	647
Submitted samples reported -----	651
ANALYSES PERFORMED BY THE NEAR INFRARED TECHNIQUE (NIR)	
Moisture -----	648
Crude Protein -----	648
Crude Fat -----	135
Crude Fiber -----	648
Calcium -----	512
Phosphorus -----	512
Magnesium -----	512
Potassium -----	512
Total NIR Analyses -----	4,127
Aflatoxins (By Immunoassay Method) -----	16

This a nonregulatory program operated by the Marketing Division as a service to South Carolina farmers and other animal owners. The analytical data are periodically verified by official Laboratory Methodology and reports issued through the Laboratory Division.

MYCOTOXIN SECTION SUMMARY - 1989-1990

Aflatoxin Official Samples

Negative - 20 ppb -----	230
21 - 100 ppb -----	8
101 ppb and above -----	0
Total -----	238

Aflatoxin Submitted Samples

Negative - 20 ppb -----	397
21 - 100 ppb -----	40
101 ppb and above -----	51
Total -----	488

Zearalenone Official Samples

Negative - 500 ppb -----	1
501 ppb and above -----	0
Total Official Samples -----	1

Zearalenone Submitted Samples

Negative - 500 ppb -----	9
501 ppb and above -----	0
Total Submitted Samples -----	9

Total Zearalenone Official and Submitted Samples ----- 10

Other Submitted Mycotoxin Samples ----- 6

Total Official and Submitted Mycotoxins ----- 742

MICROSCOPIC ANALYSES SUMMARY - 1989-1990

Submitted Feed Samples

Toxic or unusual ingredients detected -----	2
Toxic or unusual ingredients not detected -----	10

Total Submitted Microscopic Analyses ----- 12

Total Official and Submitted Microscopic Analyses ---- 12

FEED MEDICATION SECTION SUMMARY - 1989-1990

Medicated Feeds Received -----	375
Medicated Feeds Analyzed (labeled as medicated) -----	209
Feeds Analyzed (Not labeled as medicated) -----	50
Special or Submitted Feeds Analyzed -----	8
Total assays made -----	373

TYPE MEDICATION ASSAYS

Amprolium -----	33
Chlortetracycline -----	120
Furazolidone -----	2
Oxytetracycline -----	98
Penicillin -----	100
Piperazine -----	20
Total -----	373

FOOD LABORATORY - SECTION I SUMMARY - 1989-1990

Samples Received:	Official	Submitted
Fresh Ground Beef, Hamburger, etc. -----	616	3
Fresh Sausage -----	920	1
Pre-Cooked Sausage, etc. -----	16	23
Miscellaneous -----	22	11
Total Samples Received -----	1,574	38

Total official and submitted samples received -----	1,612
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Analyses Made:	Standard	Stop Orders Issued	Warnings Issued
Meats:			
Fat Content -----	1,532	55	21
Sulfites/Sulfates --	1,607	1	0
Nitrites/Nitrates --	1,610	0	0
Color -----	1,609	0	0
Starch -----	1,608	0	0
Soy -----	1,609	0	0
Species Identifi-			
cation -----	304	0	0
Total	9,879	56	21

Total Analyses Made -----	9,956
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FOOD LABORATORY - SECTION II SUMMARY - 1989-1990

Frozen Desserts

Official Frozen Dessert Samples Received -----	255
Total Frozen Dessert Samples Received -----	255

Analyses made:	Standard	Stop Orders Issued	Warnings Issued
Fat Content	252	0	3
Weight per gallon ---	252	0	3
Total Solids -----	251	0	4
Lactic Acid -----	14	0	0
Total -----	769	0	10

Total Analyses Made -----	799
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MILK AND BUTTERFAT TESTING SUMMARY - 1989-1990

Official Milk Samples drawn for Butterfat Testing -----	2,305
Number of Plant Calls Made -----	60
Number of Individual samples check-tested by Inspectors -	4
Total Butterfat Samples Tested -----	2,257
Number of Field and Laboratory Reports mailed -----	2,261

FOOD LABORATORY ENRICHMENT SECTION SUMMARY - 1989-1990

Official Samples received:

Flour:

Meeting Standards -----	11
Below Standards -----	5

Grits:

Meeting Standards -----	6
Below Standards -----	2

Corn Meal:

Meeting Standards -----	18
Below Standards -----	1

Rice:

Meeting Standards -----	4
Below Standards -----	3

Bread:

Meeting Standards -----	2
Below Standards -----	0

Total Number of Official Samples Received -----	52
Total Number of Enrichment Analyses Performed -----	104

MISCELLANEOUS FOOD, FEED AND TOXICOLOGY ANALYSES

Arsenic -----	53
Calcium -----	48
Cyanide -----	16
Heavy Metals -----	58
Lead -----	11
Moisture -----	307
Nitrates -----	79
pH -----	28
Phosphorus -----	45
Salt -----	4
Strychnine -----	102
Total Solids -----	13
Miscellaneous Minerals -----	15
Ureas -----	1
Total Analyses -----	780

MICROBIOLOGY SECTION SUMMARY - 1989-1990

EXTRANEOUS MATERIALS - INSECT FRAGMENT COUNTS

Official Samples -----	113
Submitted Samples -----	32
Total -----	145

TYPE SAMPLES

Corn Meal -----	69
Grits -----	22
Macroscopic and Microscopic Identifications -----	28
Miscellaneous -----	26
Total Samples -----	145

PETROLEUM PRODUCTS SECTION SUMMARY - 1989-1990

	Received and Analyzed	Standard	Below Standard
Total Number of Official Samples:			
Gasoline -----	2,703	2,483	220
Kerosene -----	264	228	36
Fuel Oil -----	31	29	2
Diesel Fuel -----	250	227	23
Miscellaneous Products -----	7	6	1
Total -----	3,255	2,973	282

	Received and Analyzed	Standard	Below Standard
Total Number of Submitted Samples:			
Gasoline -----	79	61	18
Kerosene -----	3	1	2
Fuel Oil -----	7	1	6
Diesel Fuel -----	23	12	11
Miscellaneous Products -----	5	4	1
Total -----	117	79	38

Total Number Official and Submitted Samples ----- 3,372

Total Analyses Made:	Official	Submitted	Total
Gravity -----	3,555	69	3,624
Water -----	3,555	75	3,630
Flash Point -----	545	33	578
Distillation -----	3,554	81	3,635
Octane (Research Method) -	3,003	63	3,066
Octane (Motor Method) ----	3,007	65	3,072
Lead Content -----	313	41	354
Reid Vapor Pressure -----	3,003	5	3,008
Alcohol Content -----	187	9	196
Saybolt Color -----	264	2	266
Sulfur Content -----	523	24	547
Totals -----	21,509	407	21,979

OFFICIAL PETROLEUM PRODUCTS BY COMPANIES - SUMMARY 1989-1990

	Standard	Below Standard
A McCoy's -----	5	0
Amerada Hess Corporation, Woodbridge, NJ -----	114	4
Amoco Oil Company, Chicago, IL -----	301	10
Anderson Oil Co., Florence, SC -----	3	1
Anderson Oil Co., Nichols, SC -----	5	0
Autosystems, Inc., Greenville, SC -----	11	0
BP Oil Company, -----	321	28
Cel Oil Products Corp., North Charleston, SC -----	11	1
Chevron, U.S.A., Inc., Atlanta, GA -----	43	3
Citgo Petroleum Corp., Tulsa, OK -----	93	12
Colonial Oil Industries, Inc., Savannah, GA -----	34	0
Crown Central Petroleum Corp., Baltimore, MD -----	139	4
Dearybury Oil Co., Cowpens, SC -----	7	1
Direct Oil Corp., Nashville, TN -----	9	1
Emro Marketing Company, Chamblee, GA ----	90	3
Exxon Company, U.S.A., Baltimore, MD ----	482	42
Fina Oil and Chemical Co., Dallas, TX ---	56	9
Fleet Oil Co., Norcross, GA -----	3	0
Gate Petroleum Company, Jacksonville, FL -----	30	2
Jet Service, Pickens, SC -----	14	0
R. L. Jordan Oil Company, Inc., Spartanburg, SC -----	29	4
Kayo Oil Company, Chattanooga, TN -----	6	0
Marathon Petroleum Co., Findlay, OH -----	39	1
Mid-State Oil Co., Lexington, NC -----	6	0
Miller Oil Company, Greenville, SC -----	2	0
Munn -----	3	0
Murphy Oil Corporation, El Dorado, AR ---	17	1
Opal -----	4	0
Pace Oil Co., Winston-Salem, NC -----	1	0
Pantry, Inc. The, Sanford, NC -----	6	0
Phillips Petroleum Company, Bartlesville, OK -----	185	20
Q-S Petroleum, Inc., Nashville, TN -----	2	0
Racetrac Petroleum, Inc., Atlanta, GA ---	12	4
Rainwater Gas & Oil Company, Florence, SC -----	31	4
Red Diamond Oil, Inc., Pickens, SC -----	9	0
Save More -----	3	1
Savings, Carolina Division, Tupelo, MS --	8	3
Shell Oil Company, Houston, TX -----	172	11
Smile Gas -----	20	0

Spinx Oil Co., Greenville, SC -----	1	0
T. J. Huskey -----	6	0
Tenneco Oil Co., Houston, TX -----	9	1
Texaco, U.S.A., Atlanta, GA -----	366	29
Triton, Inc., Atlanta, GA -----	6	0
USA -----	0	3
Union Oil Company of California, Schaumburg, IL -----	152	13
United Oil Marketers, Inc., Piney Flats, TN -----	9	3
Willard Oil Co., Inc., Spartanburg, SC --	10	1
Miscellaneous Manufacturers -----	359	57
Totals -----	3,520	305
Grand Total -----	3,825	

PESTICIDE RESIDUES SECTION SUMMARY - 1989-1990

Official samples received and reported:	Negative	Residues* Slight	Excessive
Vegetables -----	1,902	33	1
Fruits -----	628	143	0
Feeds and Ingredients ---	29	15	0
Miscellaneous Commodities	14	0	0
Totals -----	2,573	191	1

*Residues within allowable tolerances.

Submitted samples received and reported:	Negative	Positive
Vegetables -----	9	1
Fruits -----	7	1
Feeds and Ingredients ---	32	22
Miscellaneous Commodities	341	120
Totals -----	389	144

Total samples received and reported ----- 3,298

Number of pesticides "screened" by methods used in Laboratory:

By Electron Capture Gas Chromatography -----	125,742
By Flame Photometric Detector Gas Chromatography-----	45,030
Nitrogen-Phosphorus Detector Gas Chromatography-----	66
By High Performance Liquid Chromatography -----	978
By Special Procedures -----	48
Total pesticide residue possibilities "screened" -----	171,864

FOOD AND COSMETIC INSPECTION SUMMARY - 1989-1990

Inspections made during the year:

Food and Cosmetic Storage Warehouses -----	820
Food and Cosmetic Manufacturers -----	366
Salvagers -----	53
"Flea" Markets -----	6
Community Canneries -----	7
Catfish Processors -----	19
Consumer Complaints Investigated -----	22
Retail Establishments -----	194
Total Inspections Made for Food and Cosmetic Enforcement -----	1,487

Special Assignments other than inspection:

Sampling for Mycotoxins -----	17
Frozen Dessert Sampling -----	254
Total Samples -----	271

Enforcement of the South Carolina Food and Cosmetic Act is an awesome responsibility of the Commissioner of Agriculture and his designated employees. Food and Cosmetic inspections are performed at all points in the distribution network from producers to consumers. The inspection effort is supported by a modern laboratory staffed with highly trained chemists, biologists, food technologist and technicians.

In the past year hurricane Hugo challenged the integrity of our food supplies in the lower part of the State requiring several weeks of extensive effort to assure that damaged or threatened supplies did not become a public health problem. The Department of Agriculture continues to function as a primary channel of communication for disseminating information from the U. S. Food and Drug Administration to other agencies in the state. Fortunately, no major food safety issues or emergencies surfaced during this year in which food safety was assigned a high priority. Stepped up pesticide residue testing generally confirmed that our states food supply is safe in this regard, a finding that is consistent with results of FDA studies and similar work in other states.

Public confidence in the safety of our food supply is still uneven owing to publicity which tended to create incorrect perceptions in a number of instances. Better communication of the realities of food safety matters is improving the situation though education of the general public is still warranted.

During the past year some food recalls by FDA and USDA were necessary owing to bacterial contamination. A sulfite adulteration of sausage discovered by our Laboratory triggered a USDA recall. These were minor incidents, promptly dealt with, and without any harm to individuals that we are aware of.



The Food and Cosmetic inspection program touches many points in our State's food supply system. Warehouses for the school lunch program, institutional warehouses, food salvage operations, food processing plants and retail establishments all receive inspection visits. This consumer protection activity is pursued for the most part without public knowledge of the government service being provided.

ANTIFREEZE SUMMARY - 1989-1990

Number of official samples received -----	62
Number of submitted samples received -----	6
Total Samples Received -----	68

Analyses of Antifreeze Samples:

Specific Gravity -----	68
% Water -----	68
Freezing Point -----	68
pH -----	68
Reserve Alkalinity (pH - 7) -----	68
Reserve Alkalinity (pH - 5.5) -----	68
Boiling Point -----	68
Totals -----	476